AMENDMENTS TO THE CLAIMS

In the claims, please amend claims 5 and 12 as follows:

- 1-4. (canceled)
- 5. (currently amended) A process for delivering a polynucleotide to the cytoplasm of a cell in vitro consisting of:
 - a) forming a styrene-maleic anhydride random copolymer;
 - b) reacting hydrophobic amines or hydrophobic alcohols with anhydride monomers in the copolymer thereby forming a membrane active polymer polyanion capable of lysing mammalian cell membranes at pH 6.5; and
 - c) contacting said cell with said polynucleotide and said membrane active polymer polyanion such that the compound polynucleotide and the polymer membrane active polyanion are endocytosed by the cell.
- 6. (canceled)
- 7. (previously presented) The process of claim 5 wherein the hydrophobic amines consist of alkyl amines.
- 8. (previously presented) The process of claim 7 wherein a functional group is covalently linked to an anhydride monomer in the polymer.
- 9-11. (canceled)
- 12. (currently amended) A process for delivering a polynucleotide to the cytoplasm of a cell in vitro consisting of:
 - a) forming a butyl vinyl ether-maleic anhydride alternating copolymer;
 - b) reacting hydrophobic amines or hydrophobic alcohols with anhydride monomers in the copolymer thereby forming a membrane active polymer polyanion capable of lysing mammalian cell membranes at pH 6.5; and
 - c) contacting said cell with said polynucleotide and said membrane active polymer polyanion such that the compound polynucleotide and the polymer membrane active polyanion are endocytosed by the cell.
- 13.-15. (canceled)
- 16. (previously presented) The process of claim 12 wherein the hydrophobic amines consist of alkyl amines.
- 17. (previously presented) The process of claim 12 wherein a functional group is covalently linked to an anhydride monomer in the polymer.
- 18-20. (canceled)

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- 21. (previously presented) The process of claim 8 wherein the functional group is selected from the group consisting of: targeting groups, steric stabilizers, membrane active compounds, and reactive groups.
- 22. (previously presented) The process of claim 17 wherein the functional group is selected from the group consisting of: targeting groups, steric stabilizers, membrane active compounds, and reactive groups.